

Appl. No. 10/061,696
Reply Dated November 15, 2005
Reply to Notice of Non-Compliant Amendment of November 2, 2005

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Amendments to Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

~~{e1}~~1. (Currently Amended) ~~An enterprise network routing system~~ system for redirecting network traffic to a target route comprising:

a public network regional router for routing data packets according to a gateway routing protocol;

a router interface device dedicated to an enterprise, the router interface device comprising:

an interface for sending and receiving a data packet to and from the public network regional router wherein the public network regional router routes data packets destined for the enterprise network to the router interface device; and

logic for redirecting ~~a the~~ data packet via the target route to a special purpose data packet device, wherein the special purpose data packet device comprises:

communication logic for sending and receiving a data packet to and from the router interface device;

logic for analyzing and modifying the data packet;

logic for inserting policy based management instruction within the public network regional router; and

logic for processing the data packet for one hop delivery wherein the policy based management instruction supersedes the gateway routing protocol.

2. Canceled.

~~{e3}~~3. (Currently Amended) The ~~enterprise network routing system~~ of claim ~~{e2}~~1 wherein the special purpose data packet device is a cache appliance wherein the cache appliance comprises logic for storing a location of active cache data for the enterprise network allowing accelerated cache retrieval for enterprise network users.

~~{e4}~~4. (Currently Amended) The ~~enterprise network routing system~~ of claim ~~{e2}~~1 wherein the special purpose data packet device is a VPN device comprising logic for identifying a target enterprise network destination address for the data packet.

~~{e5}~~5. (Currently Amended) The ~~enterprise network routing system~~ of claim ~~{e2}~~1 further comprising a second special purpose data packet device wherein the second special purpose data

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packet device is a VPN device.

~~{e6}~~6. (Currently Amended) The ~~enterprise network routing system~~ of claim ~~{e2}~~1 wherein the router interface device is a Layer 4 switch.

~~{e7}~~7. (Currently Amended) The ~~enterprise network routing system~~ of claim ~~{e2}~~1 wherein the router interface device further comprises logic for encapsulating the data packet for secure tunneling transmission across the public network.

~~{e8}~~8. (Currently Amended) The ~~enterprise network routing system~~ of claim ~~{e2}~~1 wherein the special purpose data packet device further comprises logic for encapsulating the data packet for secure tunneling transmission across the public network.

~~{e9}~~9. (Currently Amended) The ~~enterprise network routing system~~ of claim ~~{e2}~~1 wherein the system is redundant so as to further comprise at least one duplicate public network regional router, at least one duplicate router interface device, and at least one duplicate special purpose data packet device.

~~{e10}~~10. (Currently Amended) The ~~enterprise network routing system~~ of claim ~~{e2}~~1 wherein the data packet uses a CIDR IP addressing.

~~{e11}~~11. (Currently Amended) An enterprise network routing method comprising:
routing data packets according to a gateway routing protocol across a public network;
forwarding a ~~specific~~ data packet at a router interface device dedicated to an enterprise, the forwarding comprising:

sending and receiving ~~a the~~ data packet to and from the public network via a public network regional router wherein the public network regional router routes data packets destined for the enterprise network to the router interface device;
redirecting ~~a the~~ data packet to a special purpose data packet device wherein the special purpose data packet device ~~comprises~~ is adapted for:

sending and receiving ~~a the~~ data packet to and from the router interface device;
analyzing and modifying the data packet; and
inserting policy based management instruction within the public network regional router; and
processing the data packet for one hop delivery wherein the policy based management instruction ~~supersedes~~ supersedes the gateway routing protocol.

~~{e12}~~12. (Currently Amended) The enterprise network routing method of claim ~~{e10}~~11

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wherein the special purpose data packet device operates as a cache appliance, wherein the cache appliance stores a location for active cache data for the enterprise network thereby allowing accelerated cache retrieval for enterprise network users.

~~{e13}~~13. (Currently Amended) The enterprise network routing method of claim ~~{e10}~~11 wherein the special purpose data packet device operates as a VPN device and identifies a target enterprise network destination address for the data packet.

~~{e14}~~14. (Currently Amended) The enterprise network routing method of claim ~~{e10}~~11 wherein the redirecting ~~a the~~ data packet to a special purpose device further comprises redirecting ~~a the~~ data packet to a cache appliance or a VPN device.

~~{e15}~~15. (Currently Amended) The enterprise network routing method of claim ~~{e10}~~11 wherein the router interface device, at which the forwarding a specific data packet occurs, is a Layer 4 switch.

~~{e16}~~16. (Currently Amended) The enterprise network routing method of claim ~~{e10}~~11 wherein the router interface device encapsulates the data packet for secure tunneling transmission across the public network.

~~{e17}~~17. (Currently Amended) The enterprise network routing method of claim ~~{e10}~~11 wherein the special purpose data packet device encapsulates the data packet for secure tunneling transmission across the public network.

~~{e18}~~18. (Currently Amended) The enterprise network routing method of claim ~~{e10}~~11 wherein the method is practiced via an enterprise network having redundancy provided by a duplicate public network regional router, a duplicate router interface device, and a duplicate special purpose data packet device.

~~{e19}~~19. (Currently Amended) The enterprise network routing method of claim ~~{e10}~~11 further comprising identifying specific data packets using a CIDR IP notation.

~~{e20}~~20. (Currently Amended) An enterprise network routing system comprising:
a public network regional router for routing data packets according to a gateway routing protocol;

a router interface device dedicated to an enterprise, the router interface device comprising:
an interface for sending and receiving a data packet to and from the public network regional router wherein the public network regional router routes data packets destined for the enterprise network to the router interface device;

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logic for redirecting ~~a~~the data packet to a special purpose data packet device, wherein the special purpose data packet device comprises:

communication logic for sending and receiving ~~a~~the data packet to and from the router interface device;

logic for analyzing and modifying the data packet; ~~and~~

logic for inserting policy based management instruction within the public network regional router; and

logic for processing the data packet for one hop delivery wherein the policy based management instruction ~~supereedes~~supersedes the gateway routing protocol.

~~{e21}~~21. (Currently Amended)

An enterprise network routing system comprising:

means for routing data packets in a region of a public network according to a gateway routing protocol;

means for interfacing the means for routing, the means for interfacing being dedicated to an enterprise network, the means for interfacing comprising:

means for sending and receiving a data packet to and from the means for routing, wherein the means for routing routes data packets destined for the enterprise network to the means for interfacing;

means for redirecting ~~a~~the data packet to a special purpose data packet device according to logic, wherein the special purpose data packet device comprises:

means for sending and receiving ~~a~~the data packet to and from the router interface device;

means for analyzing and modifying the data packet;

means for inserting policy based management instruction within the means for routing; and

means for processing the data packet for one hop delivery wherein the policy based management instruction ~~supereedes~~supersedes the gateway routing protocol.

22. (New) The system of claim 20 wherein the special purpose data packet device is a cache appliance wherein the cache appliance comprises logic for storing a location of active cache data for the enterprise network allowing accelerated cache retrieval for enterprise network users.

23. (New) The system of claim 22, wherein the cache appliance further comprises logic for

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accessing the active cache data based on a latest time of storage.

24. (New) The system of claim 22, wherein the cache appliance further comprises logic for accessing the active cache data based on a frequency of use.

25. (New) The system of claim 20 wherein the special purpose data packet device is a VPN device comprising logic for identifying a target enterprise network destination address for the data packet.

26. (New) The system of claim 20 further comprising a second special purpose data packet device wherein the second special purpose data packet device is a VPN device.

27. (New) The system of claim 20 wherein the router interface device is a Layer 4 switch.

28. (New) The system of claim 20 wherein the router interface device further comprises logic for encapsulating the data packet for secure tunneling transmission across the public network.

29. (New) The system of claim 20 wherein the special purpose data packet device further comprises logic for encapsulating the data packet for secure tunneling transmission across the public network.

30. (New) The system of claim 20 wherein the system is redundant so as to further comprise at least one duplicate public network regional router, at least one duplicate router interface device, and at least one duplicate special purpose data packet device.

31. (New) The system of claim 20 wherein the data packet uses a CIDR IP addressing.

32. (New) The system of claim 3, wherein the cache appliance further comprises logic for accessing the active cache data based on a latest time of storage.

33. (New) The system of claim 3, wherein the cache appliance further comprises logic for accessing the active cache data based on a frequency of use.

34. (New) The enterprise network routing method of claim 12, wherein the cache appliance accesses the active cache data based on a latest time of storage.

35. (New) The enterprise network routing method of claim 12, wherein the cache appliance accesses the active cache data based on a frequency of use.

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